## NOVEMBER/DECEMBER 2024

## 23UIM21 — OBJECT ORIENTED PROGRAMMING LANGUAGE C++



Time: Three hours

Maximum: 75 marks

SECTION A —  $(10 \times 2 = 20 \text{ marks})$ 

Answer ALL questions.

- 1. List out the advantages of OOPS.
- 2. Compare "break" and "continue" statements.
- 3. How to declare static Variable in C++?
- 4. Define the term Constructor.
- 5. Summarize the term Operator overloading.
- 6. Define the term Multiple inheritance.
- 7. What is Array?
- 8. What is Polymorphism?
- 9. Classify the File modes.
- 10. Point out the uses of miscellaneous Functions.

## SECTION B — $(5 \times 5 = 25 \text{ marks})$

## Answer ALL questions.

11. (a) Discuss briefly about the I/O in C++.

Or

- (b) Illustrate in brief about the "switch-case" statement.
- 12. (a) Examine the Member function with example.

Or

- (b) Compare and contrast the Types of constructors.
- 13. (a) Discuss about the Type conversion.

Or

- (b) Write notes on Abstract classes.
- 14. (a) Explain in brief on Characteristics of Array.

Or

- (b) Elaborate the "new" and "delete" operators.
- 15. (a) Write notes on read/write operations.

Or

(b) Write and explain the steps in declaring and initializing String objects.

Answer any THREE questions.

16. Explain about Functions in C++.

20.

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- 17. Analyze the steps involved in adding bit fields and classes.
- 18. Sketch out user view of Operator overloading.
- 19. Sketch and identify the steps involved in implementing Pointers in base and derived classes.
  - Elaborate on the Binary and ASCII files with example.

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